Amendments to the Claims

1-25 [Cancelled].

Add new claims 26-37 as helpfully suggested by the Examiner:

26. A method for separating a polymerase from nucleic acid in a sample comprising:

treating the sample to expose purine bases present in
the nucleic acid by a process selected from the group
consisting of thermal denaturation, alkaline denaturation and
restriction enzyme digestion yielding single-stranded
overhangs;

capturing the exposed purine bases of the nucleic acid on a metal chelate matrix, wherein the polymerase does not bind the metal chelate matrix;

separating the polymerase from the metal chelate matrix; and

recovering the polymerase, thereby separating the polymerase from the nucleic acid.

- 27. The method of claim 26 wherein the polymerase is a thermostable polymerase.
- 28. The method of claim 27 wherein the polymerase is Taq polymerase.

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- 29. The method of claim 26 wherein the nucleic acid is genomic DNA.
- 30. The method of claim 26 wherein the sample is a cell lysate.
- 31. The method of claim 26 wherein the separation is achieved using multi-channel plates.
- 32. The method of claim 26 wherein the separation is achieved using magnetic particles.
- 33. The method of claim 26 wherein multiple samples are treated in parallel fashion.
- 34. The method of claim 26 wherein the metal chelate matrix comprises Cu(II).
- 35. The method of claim 26 wherein exposing is performed by thermal denaturation followed by quenching in a high salt buffer.
- 36. The method of claim 34 wherein the high salt buffer comprises 20 mM HEPES and 500 mM NaCl.

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37. The method of claim 26 wherein exposing is performed by

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thermal denaturation followed by rapid cooling.